UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF COMMERCIAL FISHERIES

CALIFORNIA FISHERY MARKET NEWS MONTHLY SUMMARY

APRIL 1967

PART II–Fishing Information*

Sea-surface temperatures, fishing and research information of interest to the West Coast tuna-fishing industry and marine scientists

CONTENTS

Page

Sea Surface Temperature Charts, Eastern Pacific Ocean, April 1967 1

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*Part 1 - "Fishery Products Production and Market Data" is issued by the Bureau of Commercial Fisheries, Market News Service, Post Office Building, San Pedro, California

SEA SURFACE TEMPERATURE CHARTS, EASTERN PACIFIC OCEAN

APRIL 1967

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U.S. Bureau of Commercial Fisheries Biological Laboratories La Jolla, California; Honolulu, Hawaii; and Seattle, Washington

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Pacific Oceanographic Group, Nanaimo, British Columbia, by H. J. Hollister from observations by T. Collins at Quatsino Lightstation; G. M. Thompson at Cape St. James Light; O. A. Edwards at Amphitrite Point Light; G. C. Wilkes at Langara Island Light

Scripps Institution of Oceanography. La Jolla. California by Margaret Robinson and Hans Klein

W. R. Grace and Company, New York by Dr. I. William Lane

Ships Californian and Royal Pacific

Charts

Figure 1.--Mean sea surface temperatures (°F) derived from approximately 9000 observations. Squares show temperatures at weather ship stations. Numerals on shore are temperatures at coastal and lightship stations.

Figure 2.--Deviation of sea surface temperatures (°F) from long term charts of H.O. 225. Hatched areas are colder in 1967.

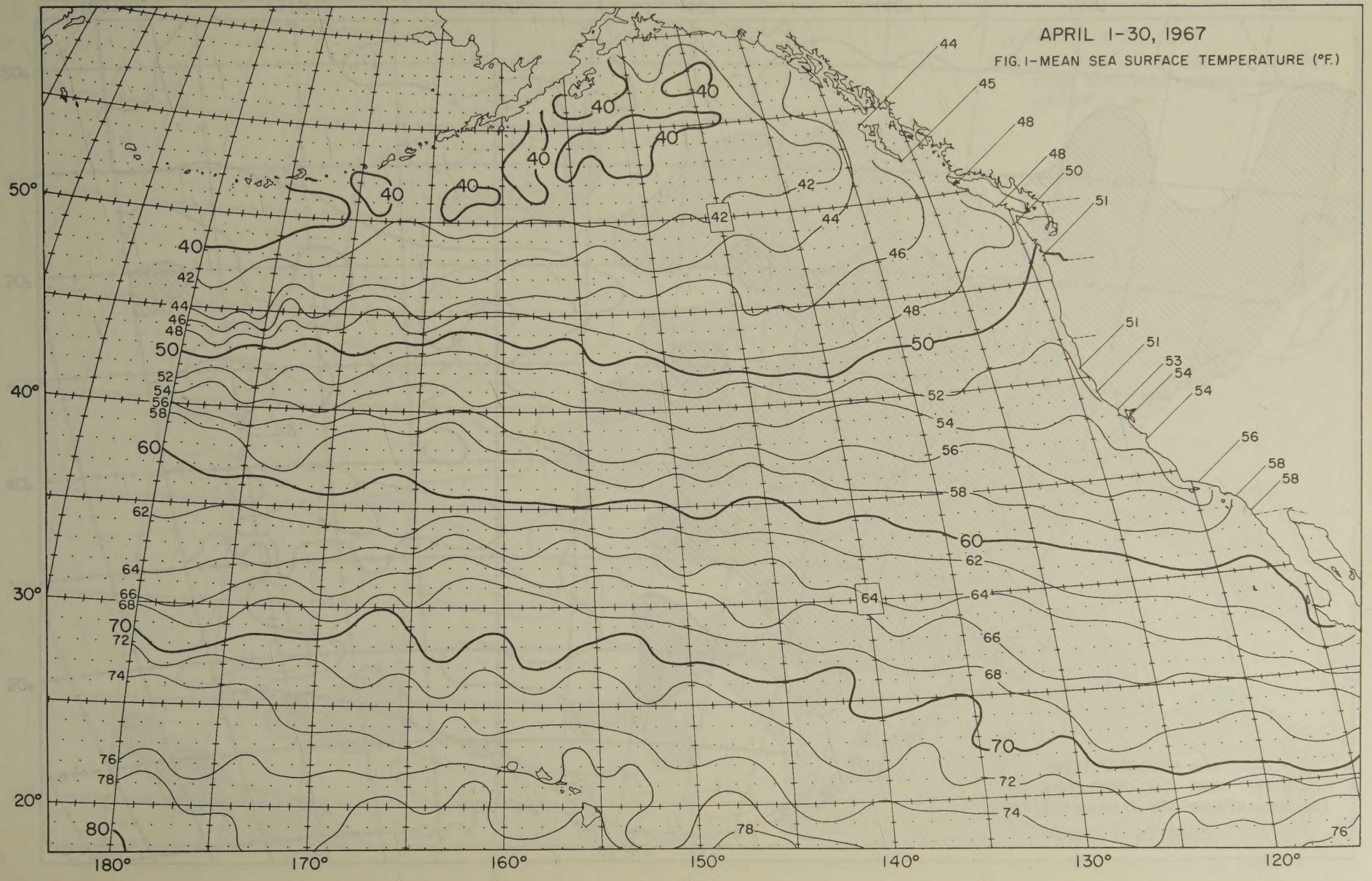
Figure 3.--Deviation of sea surface temperatures (°F) from those of April 1966. Hatched areas are colder in 1967

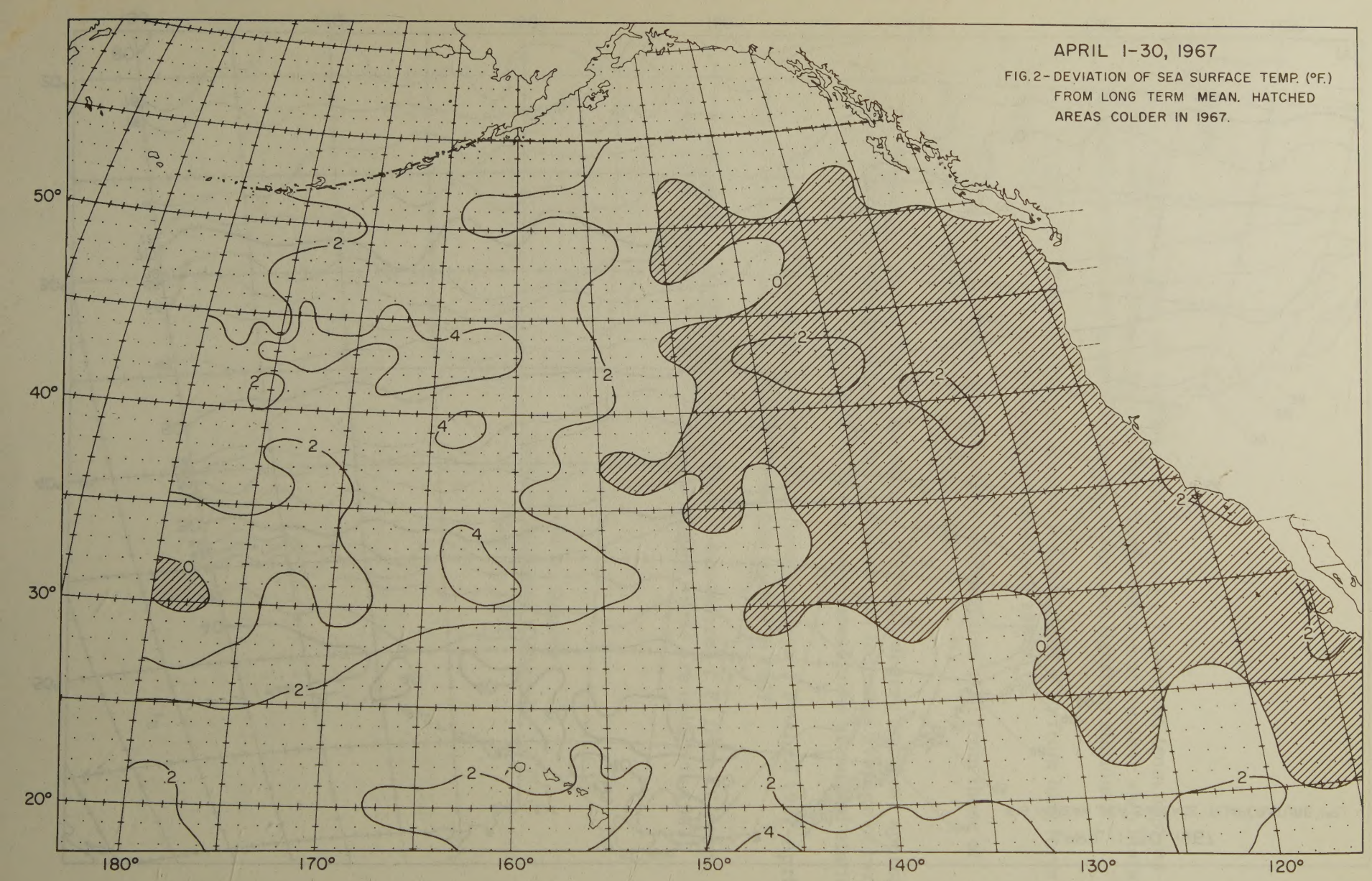
Figure 4.--Sea surface temperatures (°F) by 1-degree squares, approximately 3000 observations. Line under temperatures indicates average of two or more observations. Numerals on shore are temperatures at coastal stations.

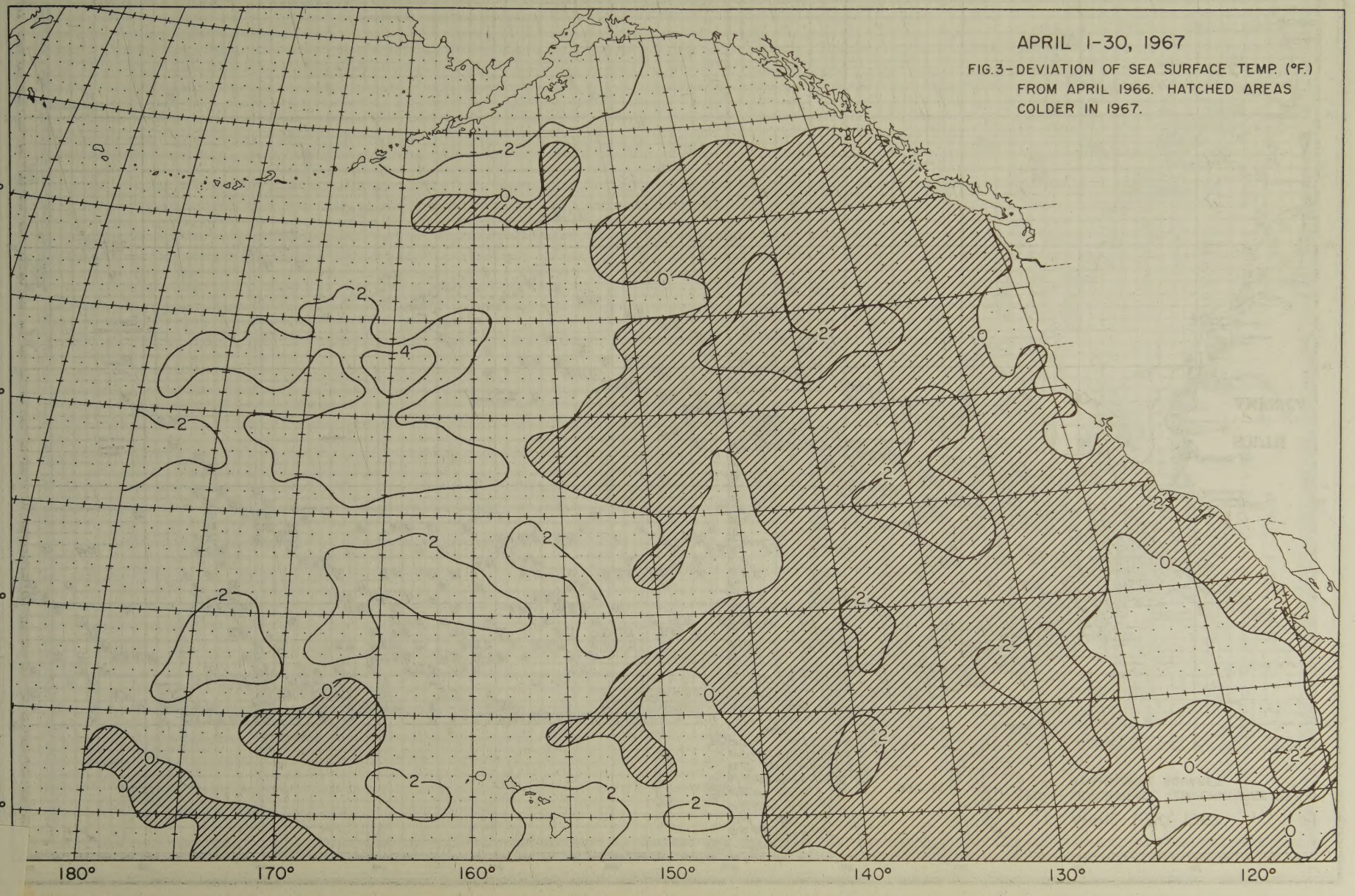
Figure 5.--Deviation of sea surface temperatures (°F) April 1967-April 1966 by 1-degree squares. Shaded areas are colder in 1967.

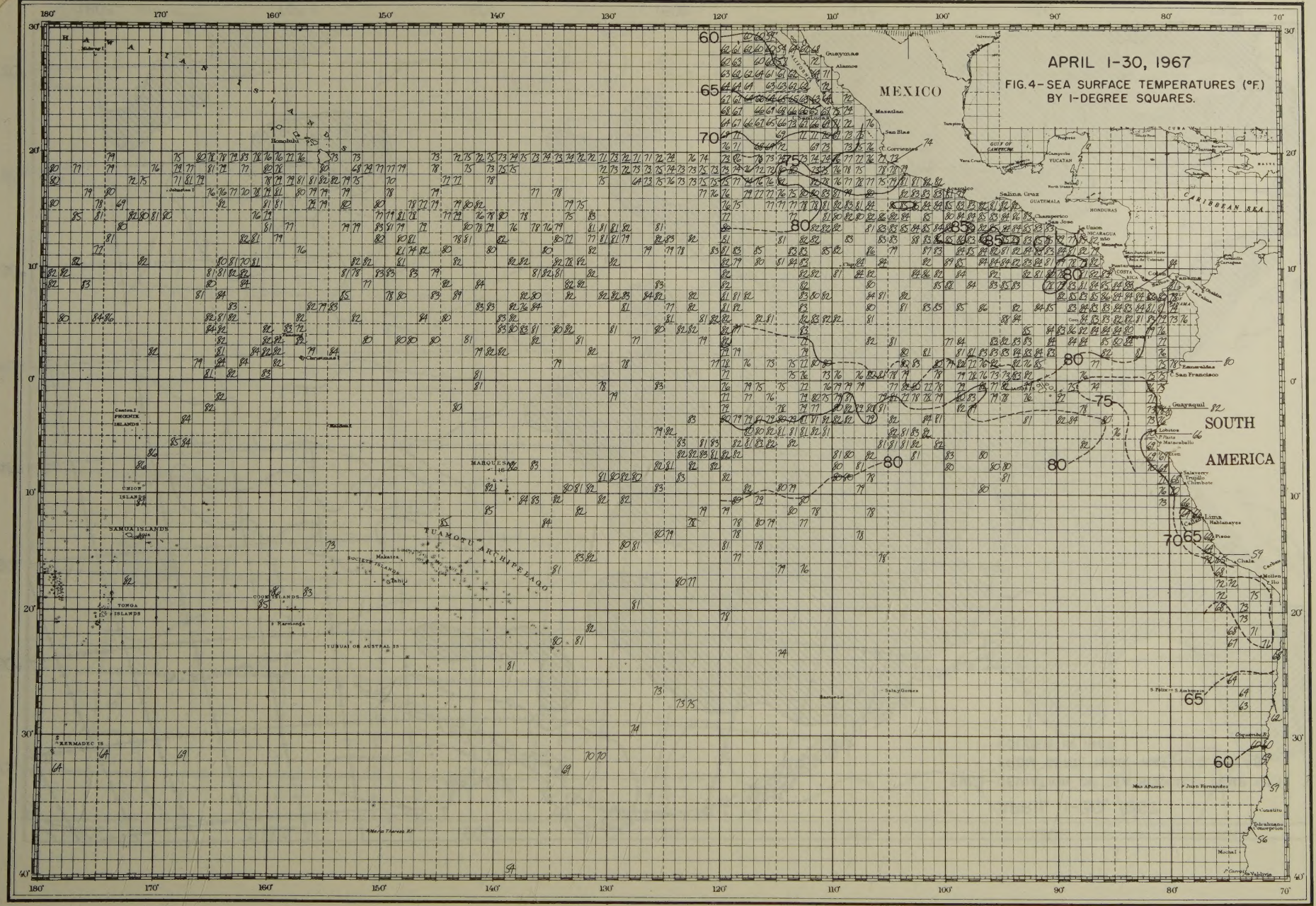
Figure 6.--Deviation of sea surface temperatures (°F) from 12-year mean (1947-1958) by 2-degree squares. Shaded areas are colder in 1967.

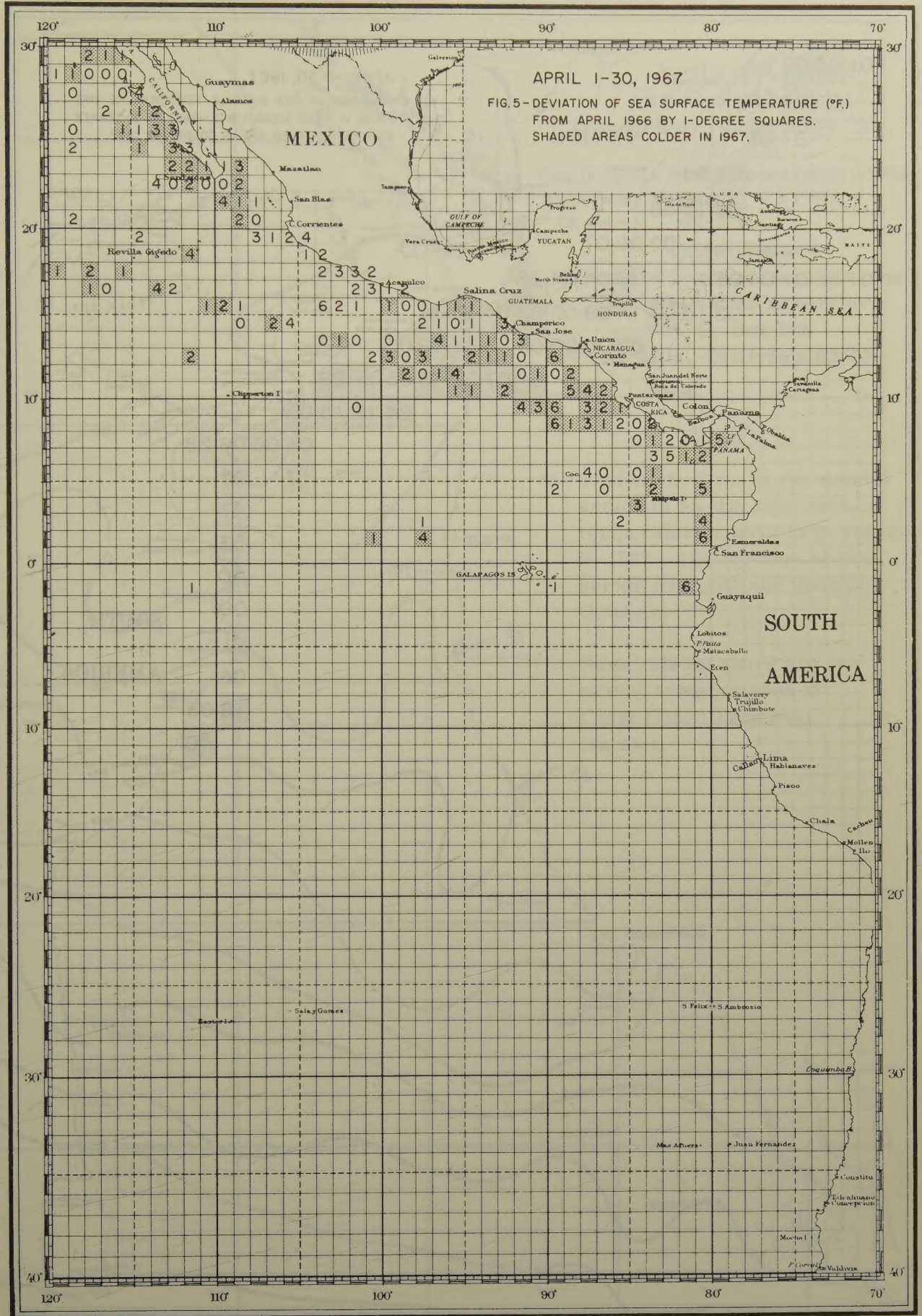
James A. Renner
Fishery Biologist (General)
May 5, 1967

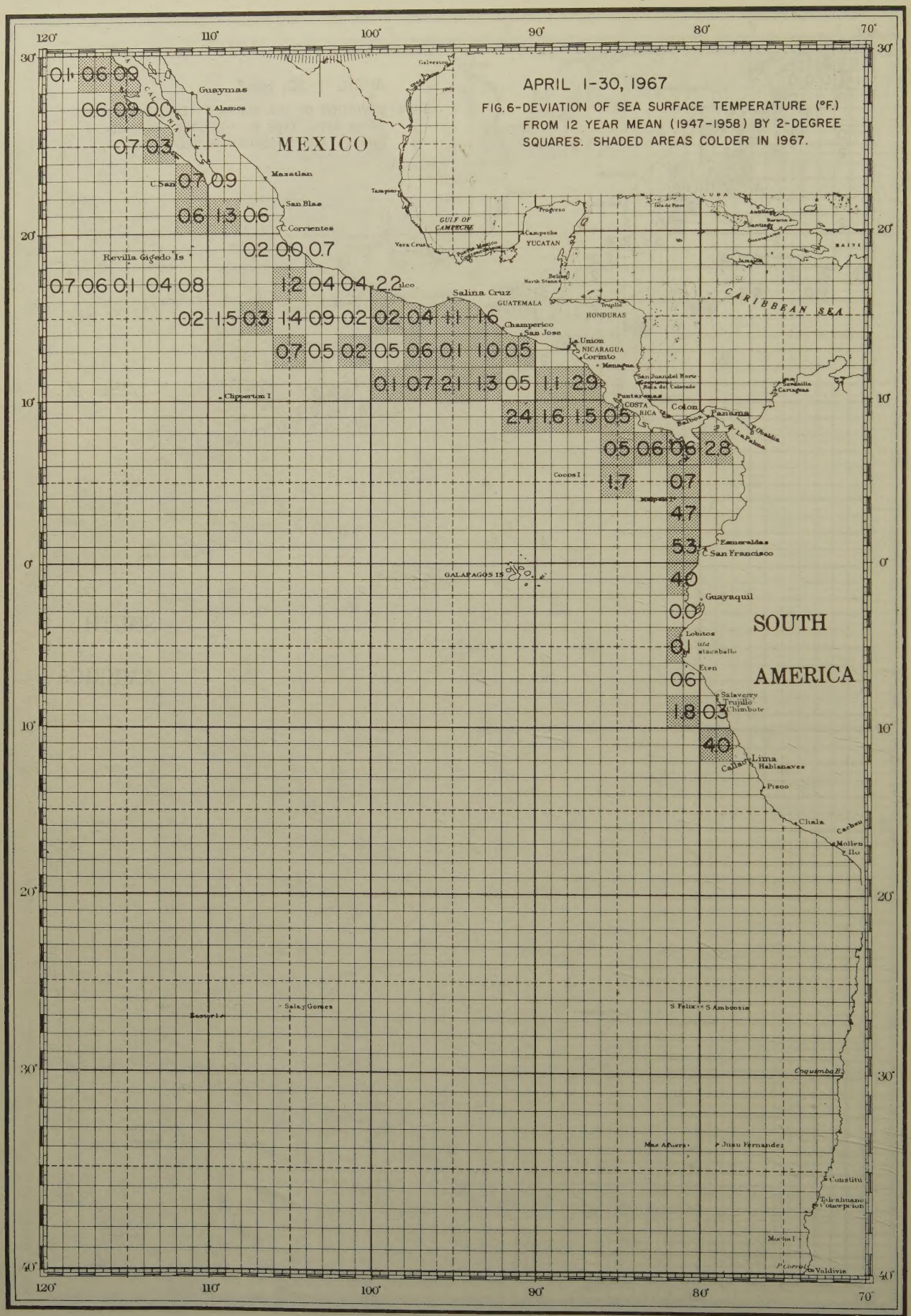

APRIL 1-30, 1967
FIG. 1-MEAN SEA SURFACE TEMPERATURE (°F.)
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°

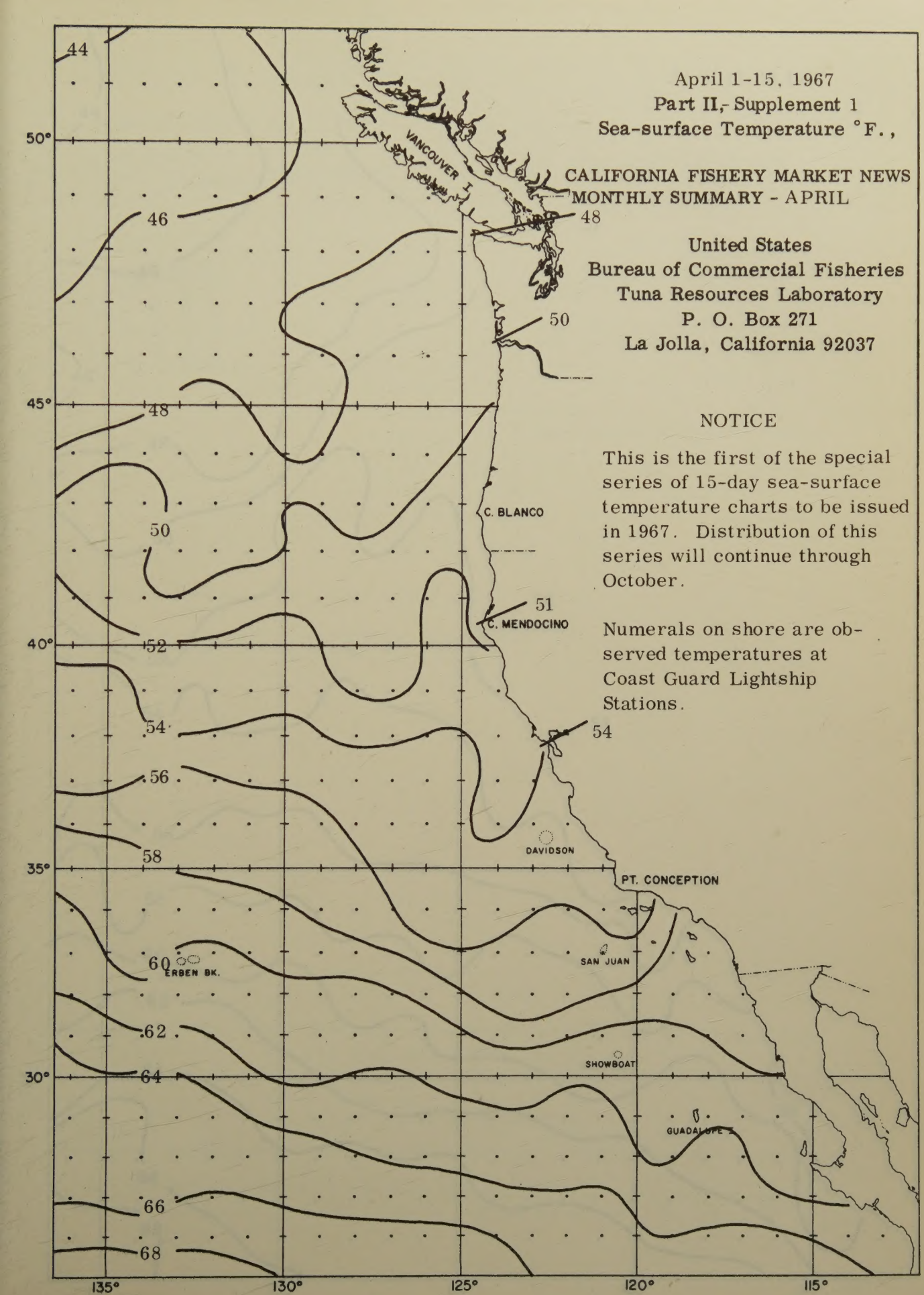

APRIL 1-30, 1967
FIG. 2 - DEVIATION OF SEA SURFACE TEMP. (°F.) FROM LONG TERM MEAN. HATCHED AREAS COLDER IN 1967.
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°

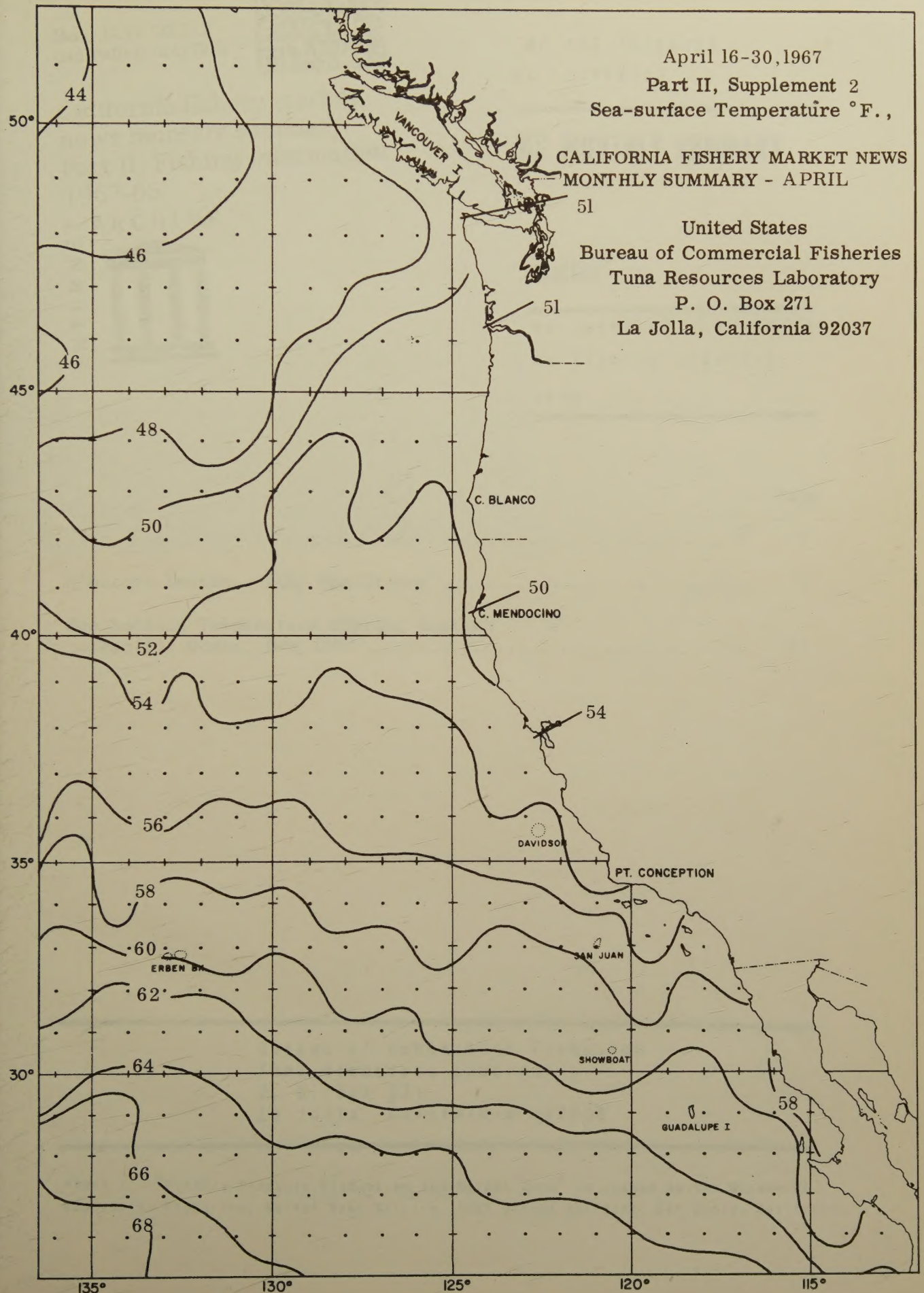

APRIL 1-30, 1967
FIG.3-DEVIATION OF SEA SURFACE TEMP. (°F.) FROM APRIL 1966. HATCHED AREAS COLDER IN 1967.
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°


APRIL 1-30, 1967
FIG. 4 - SEA SURFACE TEMPERATURES (°F.) BY 1-DEGREE SQUARES.
MEXICO
SOUTH AMERICA
CARIBBEAN SEA
HAWAIIAN ISLANDS
Honolulu
Johnston I.
Christmas I.
Canton I.
PHOENIX ISLANDS
Enderbury I.
UNION ISLANDS
SAMOA ISLANDS
TONGA ISLANDS
COOK ISLANDS
Rarotonga
TUAMOTU ARCHIPELAGO
Makatea
Tahiti
TUBUAI OR AUSTRAL IS.
MARQUESAS
KERMADEC IS.
Guaymas
Alamos
Mazatlan
San Blas
Corrientes
Acapulco
Salina Cruz
Champerico
Le Union
Corinto
Puntarenas
Cocos I.
Galapagos Is.
Esmeraldas
San Francisco
Guayaquil
Lobitos
Talara
Salaverry
Trujillo
Chimbote
Lima
Callao
Pisco
Chala
Mollendo
Arica
Iquique
Antofagasta
Coquimbo
Valparaiso
Juan Fernandez
Mas Afuera
S. Felix
S. Ambrosio
Easter I.
Salas y Gomez
Nazca
Mocha I.
Corral
Talcahuano
Concepcion
Constitucion


APRIL 1-30, 1967
FIG. 5 - DEVIATION OF SEA SURFACE TEMPERATURE (°F.) FROM APRIL 1966 BY 1-DEGREE SQUARES. SHADED AREAS COLDER IN 1967.
MEXICO
SOUTH AMERICA
CARIBBEAN SEA
GULF OF CAMPECHE
GULF OF PANAMA
GALAPAGOS IS
CUBA
HAITI
JAMAICA
GUATEMALA
HONDURAS
COSTA RICA
NICARAGUA
YUCATAN
Guaymas
Alamos
Mazatlan
San Blas
Corrientes
Revilla Gigedo
Acapulco
Salina Cruz
Champerico
San Jose
La Union
Corinto
Managua
Punta Arenas
Colon
Panama
Chipperton I
Galveston
Tampico
Vera Cruz
Progreso
Campeche
Belize
Trujillo
Cartagena
Esmeraldas
C. San Francisco
Guayaquil
Lobitos
P. Paita
Malacaballo
Eten
Salaverry
Trujillo
Chimbote
Lima
Callao
Hablanaves
Pisco
Chala
Caraveli
Mollendo
Ilo
Coquimba
Mas Afuera
Juan Fernandez
Constitu
Talcahuano
Concepcion
Mocha I.
Valdivia
Easter I.
Malpelo I.
Coc
Salas y Gomez
Escario
S. Felix
S. Ambrosio
120°
110°
100°
90°
80°
70°
30°
20°
10°
0°
40°


APRIL 1-30, 1967
FIG. 6-DEVIATION OF SEA SURFACE TEMPERATURE (°F.) FROM 12 YEAR MEAN (1947-1958) BY 2-DEGREE SQUARES. SHADED AREAS COLDER IN 1967.
MEXICO
SOUTH AMERICA
CARIBBEAN SEA
GULF OF CAMPECHE
GUATEMALA
HONDURAS
COSTA RICA
NICARAGUA
CUBA
HAITI
YUCATAN
GALAPAGOS IS
Guaymas
Alamos
Mazatlan
San Blas
Corrientes
Revilla Gigedo Is
Salina Cruz
Champerico
San Jose
La Union
Corinto
Managua
Chippertim I
Panama
Colon
Esmeraldas
San Francisco
Guayaquil
Lobitos
Eten
Salaverry
Trujillo
Chimbote
Lima
Callao
Hablanaves
Pisco
Chala
Mollendo
Ilo
Salas y Gomez
S. Felix
S. Ambrosio
Juan Fernandez
Mas Afuera
Valdivia
Corcovado B.
Coquimbo B.
Coos I
Malpelo I
Mocha I
0.1 0.6 0.9
0.6 0.9 0.0
0.7 0.3
C. San
0.7 0.9
0.6 1.3 0.6
0.2 0.0 0.7
0.7 0.6 0.1 0.4 0.8
1.2 0.4 0.4 2.2
0.2 1.5 0.3 1.4 0.9 0.2 0.2 0.4 1.1 1.6
0.7 0.5 0.2 0.5 0.6 0.1 1.0 0.5
0.1 0.7 2.1 1.3 0.5 1.1 2.9
2.4 1.6 1.5 0.5
0.5 0.6 0.6 2.8
1.7 0.7
4.7
5.3
4.0
0.0
0.1
0.6
1.8 0.3
4.0


April 1-15, 1967
Part II, Supplement 1
Sea-surface Temperature °F.,
CALIFORNIA FISHERY MARKET NEWS
MONTHLY SUMMARY - APRIL
United States
Bureau of Commercial Fisheries
Tuna Resources Laboratory
P. O. Box 271
La Jolla, California 92037
NOTICE
This is the first of the special series of 15-day sea-surface temperature charts to be issued in 1967. Distribution of this series will continue through October.
Numerals on shore are observed temperatures at Coast Guard Lightship Stations.
VANCOUVER I.
C. BLANCO
C. MENDOCINO
DAVIDSON
PT. CONCEPTION
SAN JUAN
SHOWBOAT
GUADALUPE
ERBEN BK.
44
46
48
50
52
54
56
58
60
62
64
66
68
48
50
51
54
50°
45°
40°
35°
30°
135°
130°
125°
120°
115°


April 16-30, 1967
Part II, Supplement 2
Sea-surface Temperature °F.,
CALIFORNIA FISHERY MARKET NEWS
MONTHLY SUMMARY - APRIL
United States
Bureau of Commercial Fisheries
Tuna Resources Laboratory
P. O. Box 271
La Jolla, California 92037
VANCOUVER I
C. BLANCO
C. MENDOCINO
DAVIDSON
PT. CONCEPTION
SAN JUAN
SHOWBOAT
GUADALUPE I
ERBEN BK
44
46
46
48
50
50
51
51
52
54
54
56
58
60
62
64
66
68
58
50°
45°
40°
35°
30°
135°
130°
125°
120°
115°